1. A telecommunications switching node comprising:

a plurality of input/output (I/O) ports configured to receive and transmit telecommunications signals;

a switching core comprising a plurality of switching networks; and

a backplane connecting each of said plurality of I/O ports to each of said switching networks in said switching core to effect a non-blocking path for each communications signal from any of said I/O ports to any of said I/O ports via one of said switching networks in said switching core.

2. The telecommunications switching system of claim 1 wherein said switching system effects a non-blocking path via all of said switching networks in said switching core.

3. The telecommunications switching system of claim 1 wherein said switching core comprises a pair of switching networks.

4. The telecommunications switching system of claim 1 wherein said switching core comprises two pairs of switching networks.

5. The telecommunications switching system of claim 4 wherein one or more of said plurality of I/O ports includes a switching network to effect connection through said backplane to both pairs of switching networks.

6. The telecommunications switching system of claim 5 wherein all of said plurality of I/O ports includes a switching network to effect connection through said backplane to both pairs of switching networks.